Amendments to the Claims

Please amend the claims as follows:

1. (Cancelled)

2. (Currently Amended) A ~~recombinant~~ substantially purified polypeptide comprising the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

3. (Cancelled)

4. (Currently Amended) A ~~recombinant~~ substantially purified polypeptide comprising an amino acid sequence having at least about 80% sequence identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

5. (Currently Amended) The ~~recombinant~~ substantially purified polypeptide of claim 4, wherein said amino acid sequence has at least 85% sequence identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

6. (Currently Amended) The ~~recombinant~~ substantially purified polypeptide of claim 5, wherein said amino acid sequence has at least 90% sequence identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

7. (Currently Amended) The ~~recombinant~~ substantially purified polypeptide of claim 6, wherein said amino acid sequence has at least 95% sequence identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

8. (New) The substantially purified polypeptide of claim 7, wherein said amino acid sequence has at least 98% sequence identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

9. (New) The substantially purified polypeptide of claim 8, wherein said amino acid sequence has at least 99% sequence identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

10. (New) A transformed plant comprising an amino acid sequence encoding a polypeptide, wherein said amino acid sequence exhibits a 90% or greater identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

11. (New) The transformed plant of claim 10, wherein said plant is a *Sorghum* plant.

12. (New) A transformed seed comprising a transformed plant cell comprising an amino acid sequence encoding a polypeptide, wherein said amino acid sequence exhibits a 90% or greater identity with the amino acid sequence of SEQ ID NO: 44,293 or a fragment thereof.

13. (New) The transformed seed of claim 12, wherein said seed is a *Sorghum* seed.